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**Curved lighting assembly for automobile signalling**

VALEO VISION 1998.06.03 1998FR-006955

*(1999.12.10) F21Q 1/00, F21V 5/04, 19/00*

**Novelty:** The assembly comprises a housing (10a) curved to match the vehicle contour requirements, with light emitting diodes (LED) (21) mounted in linear array form on a circuit board held in curved form by supports (11). Optical plates (30) formed with fresnel lens elements capture light from the diodes and transmit through diffusing elements (12) to the curved glass cover (10b) to provide the signal output.

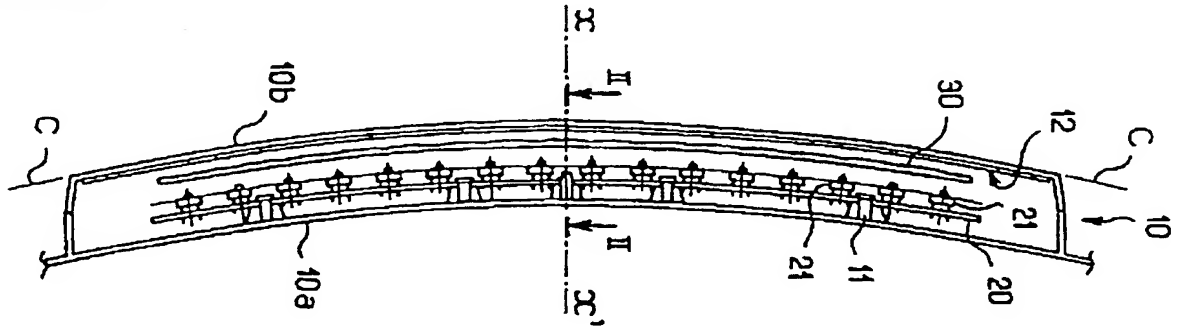
**Use:** For use in motor vehicles requiring a shaped light signalling assembly to match the body shape or allocated fitting space, notably for supplementary brake light signal

**Advantage:** The use of an LED array reduces installation space compared to conventional vehicle signalling lamps, thus enabling curved surfaces to be better accommodated. Improved aesthetic appearance is made possible for light arrays internally mounted in the vehicle. Smaller space requirements ensure minimum visibility reduction when mounted in rear window section for additional stop light display.

**Description of Drawing(s):** The drawing shows a sectional schematic view of the assembly.

Housing 10a
Curved cover 10b
Support 11
Diffusing element 12
Light emitting diode 21
Optical plate 30
(15pp Dwg.No.1/4)

**N2000-058811**
**X22-B02A**



# Curved lighting assembly for automobile signalling

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Equivalents:

## Abstract

The assembly comprises a housing (10a) curved to match the vehicle contour requirements, with light emitting diodes (LED) (21) mounted in linear array form on a circuit board held in curved form by supports (11). Optical plates (30) formed with fresnel lens elements capture light from the diodes and transmit through diffusing elements (12) to the curved glass cover (10b) to provide the signal output.